

CLAIMS:

1. A lighting device comprising at least one light source arranged in a housing for emitting a lighting beam through a light-transmitting plate of the housing, wherein said plate is provided with means which reflect incident light on the plate, in such a manner that light which locally has a higher intensity is reflected more strongly at that location than light which locally has a lower intensity, characterized in that said light-transmitting plate and said means together form a constructional element made in one piece of a diffuse reflective material.
2. A lighting device according to claim 1, wherein said element is made of a plastic material comprising diffuse reflective particles.
3. A lighting device according to claim 2, wherein said diffuse reflective particles comprise calcium halophosphate, calcium pyrophosphate, MgO, YBO₃, TiO₂ or Al₂O₃ particles.
4. A lighting device according to claim 2 or 3, wherein said plastic material is chosen from the group consisting of acrylic plastics, fluoroplastics, polysiloxanes, polyesters, polycarbonates.
5. A lighting device according to any of the preceding claims 1 through 4, wherein said element comprises a profile with a varying thickness in such a manner that the thickness of the element at a location close to the light source is larger than at a location further removed from the light source.
6. A lighting device according to claim 5, wherein said profile is made through grinding or embossing.
7. A lighting device according to claim 5, wherein said profile is made through moulding or extrusion.

8. A method for laterally homogenising of the intensity of light emitted from a lighting device comprising at least one light source arranged in a housing for emitting a lighting beam through a light-transmitting plate of the housing, wherein said plate is provided
- 5 with means which reflect incident light on the plate, in such a manner that light which locally has a higher intensity is reflected more strongly at that location than light which locally has a lower intensity, characterized in that said light-transmitting plate and said means together are formed as a constructional element made in one piece of a diffuse reflective material.